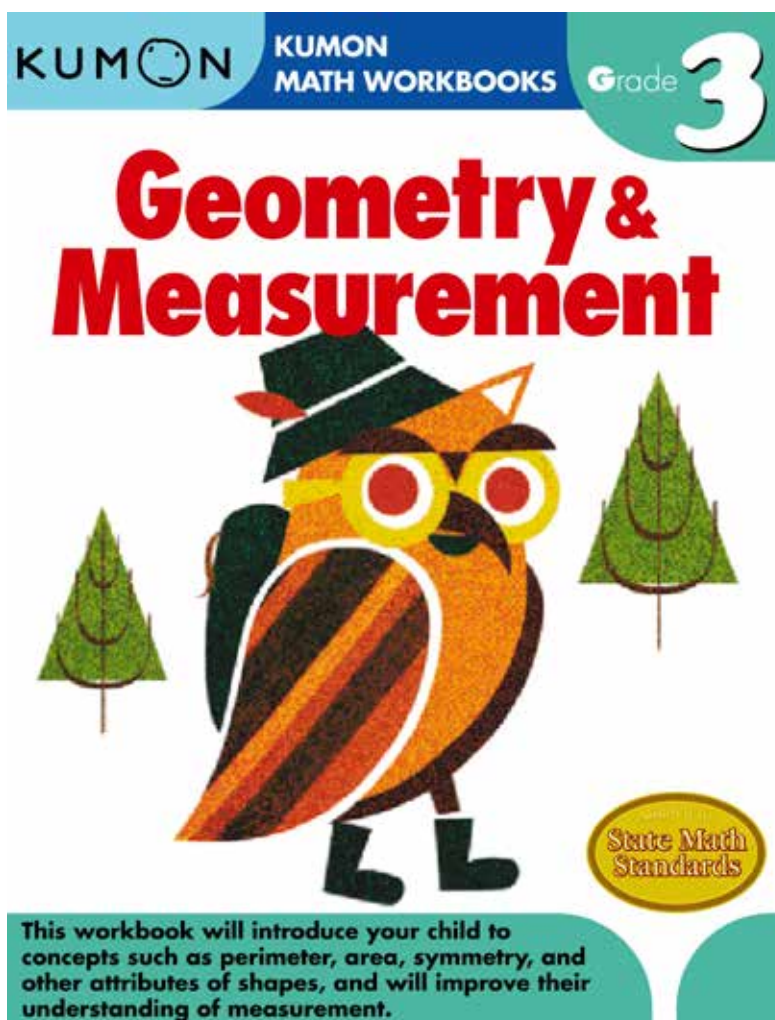


Kumon *Grade 3 Geometry & Measurement* Workbook Educator's Guide

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Using Kumon Calculations Workbooks: General Guidance

Kumon Calculations Workbooks follow the Kumon Method, a proven learning system from Japan that has helped millions of children worldwide develop math skills without frustration.

You can use Kumon Calculations Workbooks to **introduce new math skills** or to **provide additional support** after/alongside another program. The table below shows benefits of each approach.

Using Kumon Workbooks to teach a new skill	Using Kumon Workbooks for additional support
<ul style="list-style-type: none">• Learn the new concept(s) using an efficient and targeted approach• Avoid development of misconceptions• Progress toward mastery of the relevant math facts and procedures• Improve your child's mental calculation abilities and their ability to learn independently	<ul style="list-style-type: none">• Refine and deepen understanding of the concept(s)• Solidify mastery of math facts and gain procedural fluency• Identify and correct misconceptions• Improve your child's mental calculation abilities and their ability to learn independently

Please note that **for the full benefit of the Kumon Method**, including personalized learning plans and individualized instruction, take the next step and contact a Kumon Learning Center near you. Visit www.kumon.com for more information about our Learning Centers.

Important Steps

For all Kumon Calculations Workbooks, please use the following steps for best results.

Timing
<ul style="list-style-type: none">• We recommend having your child complete about one section (2 pages) a day. This should include the answer check.• Each daily session is about 15 to 30 minutes. If your child is learning the skill for the first time, the learning session will be closer to 30 minutes.
Sequencing
<ul style="list-style-type: none">• Even if your child is reviewing material, have them start on page 1 and work through the book page by page. Similarly, they should always work problems on each page in order. For best results, do not skip any content. <p>Kumon Workbooks are designed so the student “learns through doing”; therefore, the sequence of pages and</p>

problems in each book is key to the instructional method and effectiveness.

Checking Answers and Moving On

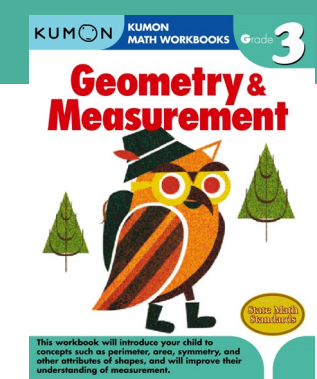
- Checking and correcting answers is an essential part of the learning process. One approach is to have a parent or teacher mark the child's answers as either correct or incorrect. Then have the child correct the wrong answers.
- You may choose to require a perfect score before your child moves on the next section. If you use this approach, you can repeat each section as many times as you wish by erasing it and having your child redo it. Or, have your child write answers on a separate sheet.

Encourage Self-Learning

- One hallmark of the Kumon Method is the emphasis on learning through doing rather than passive absorption of information. This is why there is minimal direct explanation in the book; the understanding comes through working problems in sequence.
- Support your child in the self-learning process by allowing them to work independently on the problems, correct their answers, and reflect on their errors. We encourage you to ask questions to promote deeper engagement, but resist the urge to "just explain" what they should learn from the page.

For a daily plan and page-by-page guidance to support using Kumon *Grade 3 Geometry & Measurement*, see the next page.

KUMON Grade 3 Geometry & Measurement Workbook: Daily Guide



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Using this guide

- This guide organizes the workbook into daily sessions of 2 pages each.
- Each daily session should last about 15 to 30 minutes.
- Fill in the Date column to keep track of your progress.

Date	Book Section	PP.	Description	Educator Notes
TOPIC: Review				
	1	2–3	• Review of money, time, and length	These lessons serve as a review. If your child struggles with these lessons, consider having them use <i>Grade 2 Geometry & Measurement</i> to review before moving on.
	2	4–5	• Review of number lines and geometry	
TOPIC: Large Numbers				
	3	6–7	• Place values	While the tasks in this activity are fairly simple, the large numbers make the work more difficult. Encourage your child to take their time, and check the place values carefully. If your child has trouble scanning the numbers, it may help them to add commas to separate the thousands from the hundreds.
	4	8–9	• Place values	
	5	10–11	• Number lines and comparing values	
	6	12–13	• Ten-times and hundred-times	Have your child carefully count the zeros in each number.
TOPIC: Fractions				
	7	14–15	• Halves, thirds, fourths, and fifths	Have your child count each of the pieces to determine what the denominator should be. Make sure they understand that the numerator is 1 because they are choosing one piece.
	8	16–17	• Numerators greater than one	Have your child practice counting out the numerator and the denominator using the illustrations provided.
TOPIC: Length				
	9	18–19	• Measuring fractions of an inch	Your child will need to be able to compare fractions with different denominators and understand that $\frac{1}{8}$ is the same as $\frac{2}{16}$. Review this concept with them as needed, using the number line provided to reinforce.
	10	20–21	• Converting miles and feet	Have your child refer to the legend as needed and calculate carefully.
	11	22–23	• Measuring millimeters	
	12	24–25	• Using a rule to measure	
	13	26–27	• Converting kilometers and meters	
TOPIC: Area				
	14	28–29	• Calculating area	Start off by having your child count the squares to find the area. Then have them count the length and width of each shape. Ask them what patterns they notice, and whether they can figure out how to find area without counting the squares.
TOPIC: Weight				
	15	30–31	• Measuring pounds and ounces	Extend these activities at home by having your child weigh different household objects. If you have a scale that measures in different units, have them find the weight in different units and compare.
	16	32–33	• Measuring grams and kilograms	
	17	34–35	• Converting grams and kilograms	
	18	36–37	• Measuring grams and kilograms	
	19	38–39	• Converting grams and milligrams	
TOPIC: Capacity				
	20	40–41	• Comparing capacity	These activities have your child compare capacity by looking at visual representations first, then by calculating and converting units. You can support their understanding of volume by having them check of the capacity of different household objects such as a milk container, a water bottle, a kettle, and a vase.
	21	42–43	• Calculating capacity	
	22	44–45	• Gallons and quarts	
	23	46–47	• Liters and milliliters	
TOPIC: Telling Time				
	24	48–49	• Writing time minute by minute	If you have an analog clock or watch, have your child practice moving the hands to create each of the times shown on these pages. They can also make their own clock using a paper plate, two pieces of cut out paper hands, and a pin.
	25	50–51	• Writing time, with different hours	
	26	52–53	• Telling time	
	27	54–55	• Telling time	
	28	56–57	• Telling time	
TOPIC: Triangles & Quadrilaterals				
	29	58–59	• Right angles	Encourage your child to cut out shapes (or use blocks if you have them) so that they have practice cutting out shapes and angles.
	30	60–61	• Identifying shapes	
	31	62–63	• Classifying triangles	

Date	Book Section	PP.	Description	Educator Notes
	32	64–65	• Drawing triangles and quadrilaterals	
TOPIC: Boxes				
	33	66–67	• Constructing boxes	If you have a cardboard box at home, have your child guess what it will look like unfolded and draw it on a piece of paper. Then have them unfold it and compare it against their drawing. You can also have them attempt to fold boxes of their own in various proportions.
	34	68–69	• Constructing boxes	
TOPIC: Review				
	35	70–71	• Review	
	36	72–73	• Review	